

CLAIMS

What is claimed is:

1. A recording and/or reproducing method, the method comprising:
sampling a playback signal, from light reflecting off a recording medium, for a signal representing a header field, included in the playback signal; and
comparing the sampled signal representing the presence of a header field with a reference level, holding a result of the comparison for a predetermined period of time to generate a header field signal, and providing the header field signal to a servo driving unit to generate a servo driving signal to control a servo of a recording and/or reproducing apparatus.
2. The method of claim 1, wherein in the sampling of the playback signal is accomplished by high-pass filtering the playback signal.
3. The method of claim 1, wherein the recording medium is a DVD-RAM disc.
4. The method of claim 1, wherein the comparing and holding further comprise :
comparing the sampled signal representing the presence of a header field with a first reference level and outputting a first comparison signal;
comparing the sampled signal representing the presence of a header field with a second reference level and outputting a second comparison signal; and
holding the first and second comparison signals for a predetermined period of time to generate the header field signal.
5. The method of claim 4, wherein the first reference level is set to be lower than a top level of the playback signal and the second reference level is set to be higher than a bottom level of the playback signal.
6. The method of claim 4, wherein the predetermined period of time is set to be greater than a period of time from a point of time when the first comparison signal is output to a point of time when the second comparison signal is output.

7. The method of claim 1, wherein the recording and/or reproducing apparatus comprises a pickup using light to pick up information recorded on an optical disc having an embossed area and a recording/reproducing area with embossed header fields located at every predetermined recording unit, a playback signal detecting unit that detects the playback signal and a track error signal from information picked up by the pickup, and the servo driving unit that generates the servo driving signal from the track error signal.

8. A recording and/or reproducing apparatus, comprising:
a sampling unit to sample a playback signal, from light reflecting off a recording medium, for a signal representing the presence of a header field;
a comparing unit to compare the signal representing the presence of a header field with a reference level and to output a comparison signal; and
a holding unit to hold the comparison signal to generate a header field signal for a servo driving unit to generate a servo driving signal to control a servo of the recording and/or reproducing apparatus.

9. The apparatus of claim 8, wherein the sampling unit comprises a high-pass filter that high-pass filters the playback signal and samples the signal representing the presence of a header field.

10. The apparatus of claim 8, wherein the recording medium is a DVD-RAM disc.

11. The apparatus of claim 8, wherein the comparing unit comprises:
a first comparator that compares the signal representing the presence of a header field with a first reference signal and outputs a first comparison signal;
a second comparator that compares the signal representing the presence of header field with a second reference signal and outputs a second comparison signal; and
an OR gate that performs an OR operation on the first and second comparison signals.

12. The apparatus of claim 11, wherein the first reference level is set to be lower than a top level of the playback signal and the second reference level is set to be higher than a bottom level of the playback signal.

13. The apparatus of claim 11, wherein a holding period of the signal output by the comparing unit is set to be greater than a period of time from a point of time when the first comparison signal is output from the first comparator to a point of time when the second comparison signal is output from the second comparator.

14. The apparatus of claim 8, further comprising:

a header field signal detecting unit comprising the sampling unit, the comparing unit, and the holding unit;

a pickup that uses light to pick up information recorded on the recording medium having an embossed area and a recording/reproducing area with embossed header fields located at every predetermined recording unit;

a playback signal detecting unit that detects the playback signal and a track error signal from information picked up by the pickup; and

a servo driving unit that generates a servo driving signal from the track error signal, and the header field signal detecting unit.

15. A method of controlling a servo in an optical recording and/or reproducing apparatus, the method comprising:

sampling a playback signal, from a pickup detecting light reflecting off a recording medium, for a signal representing the presence of a header field;

comparing the signal representing the presence of a header field with a reference level and holding the comparison result for a predetermined period of time to generate a header field signal;

holding a track error signal generated by the pickup, based on the light detected by the pickup, during the generation of the header field signal and generating a track count signal in a seek mode operation of the recording and/or reproducing apparatus; and

generating a seek driving signal to pickup information from a desired track of the recording medium by using the track count signal.

16. The method of claim 15, wherein the recording and/or reproducing apparatus comprises the pickup that uses light to pick up information recorded on the recording medium having an embossed area and a recording/reproducing area with embossed header fields located at every predetermined recording unit, a playback signal detecting unit that detects a playback signal and the track error signal from information picked up by the pickup, and a seeking unit that generates the seek driving signal from the track error signal.

17. A method of controlling a servo in an optical recording and/or reproducing apparatus, the method comprising:

- sampling a playback signal, from a pickup detecting light reflecting off a recording medium, for a signal representing the presence of a header field;

- comparing the signal representing the presence of a header field with a reference level and holding the comparison result for a predetermined period of time to generate a header field signal; and

- generating a corrected tracking driving signal for a tracking of the recording medium which ignores the effect of a signal in the track error signal, generated by the pickup based on the light detected by the pickup, representing the presence of a header field, by holding an uncorrected tracking driving signal a period of time based on the header field signal.

18. The method of claim 17, wherein the recording and/or reproducing apparatus, comprises:

- the pickup that uses light to pick up information recorded on the recording medium having an embossed area and a recording/reproducing area with embossed header fields located at every predetermined recording unit;

- a playback signal detecting unit that detects the playback signal and the track error signal from information picked up by the pickup; and

- a tracking servo that generates the corrected and uncorrected tracking driving signal from the track error signal.

19. A method of controlling a servo for an optical recording and/or reproducing apparatus, the method comprising:

- sampling a playback signal, from a pickup detecting light reflecting off a recording medium, for a signal representing the presence of a header field;

comparing the signal representing the presence of a header field with a reference level and holding the comparison result for a predetermined period of time to generate a header field signal;

generating a corrected tracking driving signal for a tracking of the recording medium which ignores the effect of a signal in the track error signal, generated by the pickup based on the light detected by the pickup, representing the presence of a header field, by holding an uncorrected tracking driving signal a period of time based on the header field signal, in a reproduction mode operation; and

generating a track count signal by holding the track error signal based on the header field signal and generating a seek driving signal to pickup information from a desired track of the recording medium by using the track count signal, in a seek mode operation.

20. The method of claim 19, wherein the recording and/or reproducing apparatus comprises:

the pickup that uses light to pick up information recorded on the recording medium having an embossed area and a recording/reproducing area with embossed header fields located at every predetermined recording unit;

a playback signal detecting unit that detects the playback signal and the track error signal from information picked up by the pickup; and

a tracking servo that generates the corrected and uncorrected tracking driving signal from the track error signal.

21. An apparatus for controlling a servo in an optical recording and/or reproducing apparatus, the apparatus comprising:

a header field signal detecting circuit to compare a signal, from a pickup detecting light reflecting off a recording medium and including a signal representing the presence of a header field, with a reference level, and to hold the comparison result for a predetermined period of time to generate a header field signal; and

a seeking unit to generate a track count signal by holding a track error signal, generated by the pickup based on the light detected by the pickup, based on the header field signal, and to generate a seek driving signal to pickup information from a desired track of the recording medium by using the track count signal, in a seek mode.

22. The apparatus of claim 21, wherein the apparatus for controlling the servo is the recording and/or reproducing apparatus, which further comprises:

the pickup that uses light to pick up information recorded on the recording medium having an embossed area and a recording/reproducing area with embossed header fields located at every predetermined recording unit; and

a playback signal detecting unit that detects the playback signal and the track error signal from information picked up by the pickup.

23. An apparatus for controlling a servo in an optical recording and/or reproducing apparatus, the apparatus comprising:

a header field signal detecting circuit to compare a signal, from a pickup detecting light reflecting off a recording medium and including a signal representing the presence of a header field signal, with a reference level, and to hold the comparison result for a predetermined period of time to generate a header field signal; and

a tracking servo to generate a corrected tracking driving signal for tracking of the recording medium which ignores the effect of a signal in the track error signal, generated by the pickup based on light detected by the pickup, representing the presence of a header field, by holding an uncorrected tracking driving signal based on the header field signal.

24. The apparatus of claim 23, wherein the apparatus for controlling a servo is the recording and/or reproducing apparatus, which further comprises:

the pickup that uses light to pick up information recorded on the recording medium having an embossed area and a recording/reproducing area with embossed header fields located at every predetermined recording unit; and

a playback signal detecting unit that detects the playback signal and the track error signal from information picked up by the pickup.

25. An apparatus for controlling a servo in an optical recording and/or reproducing apparatus, the apparatus comprising:

a header field signal detecting circuit to compare a signal, from a pickup detecting light reflecting off a recording medium and including a signal representing the presence of a header field signal, with a reference level, and to hold the comparison result for a predetermined period of time to generate a header field signal;

a tracking servo to generate a corrected tracking driving signal for tracking of the recording medium which ignores the effect of a signal in the track error signal, generated by the pickup based on light detected by the pickup, representing the presence of a header field, by holding an uncorrected tracking driving signal based on the header field signal, in a reproduction mode; and

a seeking unit to generate a track count signal by holding a track error signal, generated by the pickup based on the light detected by the pickup, based on the header field signal, and to generate a seek driving signal to pickup information from a desired track of the recording medium by using the track count signal, in a seek mode.

26. The apparatus of claim 25, wherein the apparatus for controlling a servo is the recording and/or reproducing apparatus, which further comprises the pickup that uses light to pick up information recorded on the recording medium having an embossed area and a recording/reproducing area with embossed header fields located at every predetermined recording unit, and the playback signal detecting unit that detects the playback signal and the track error signal from information picked up by the pickup.

27. A medium comprising computer readable code controlling a computer to control the execution of the method of claim 1.

28. A medium comprising computer readable code controlling a computer to control the execution of the method of claim 15.

29. A medium comprising computer readable code controlling a computer to control the execution of the method of claim 17.

30. A medium comprising computer readable code controlling a computer to control the execution of the method of claim 19.

31. A medium comprising computer readable code controlling a computer to control the operation of the apparatus of claim 8.

32. A medium comprising computer readable code controlling a computer to control the operation of the apparatus of claim 21.

33. A medium comprising computer readable code controlling a computer to control the operation of the apparatus of claim 23.

34. A medium comprising computer readable code controlling a computer to control the operation of the apparatus of claim 25.